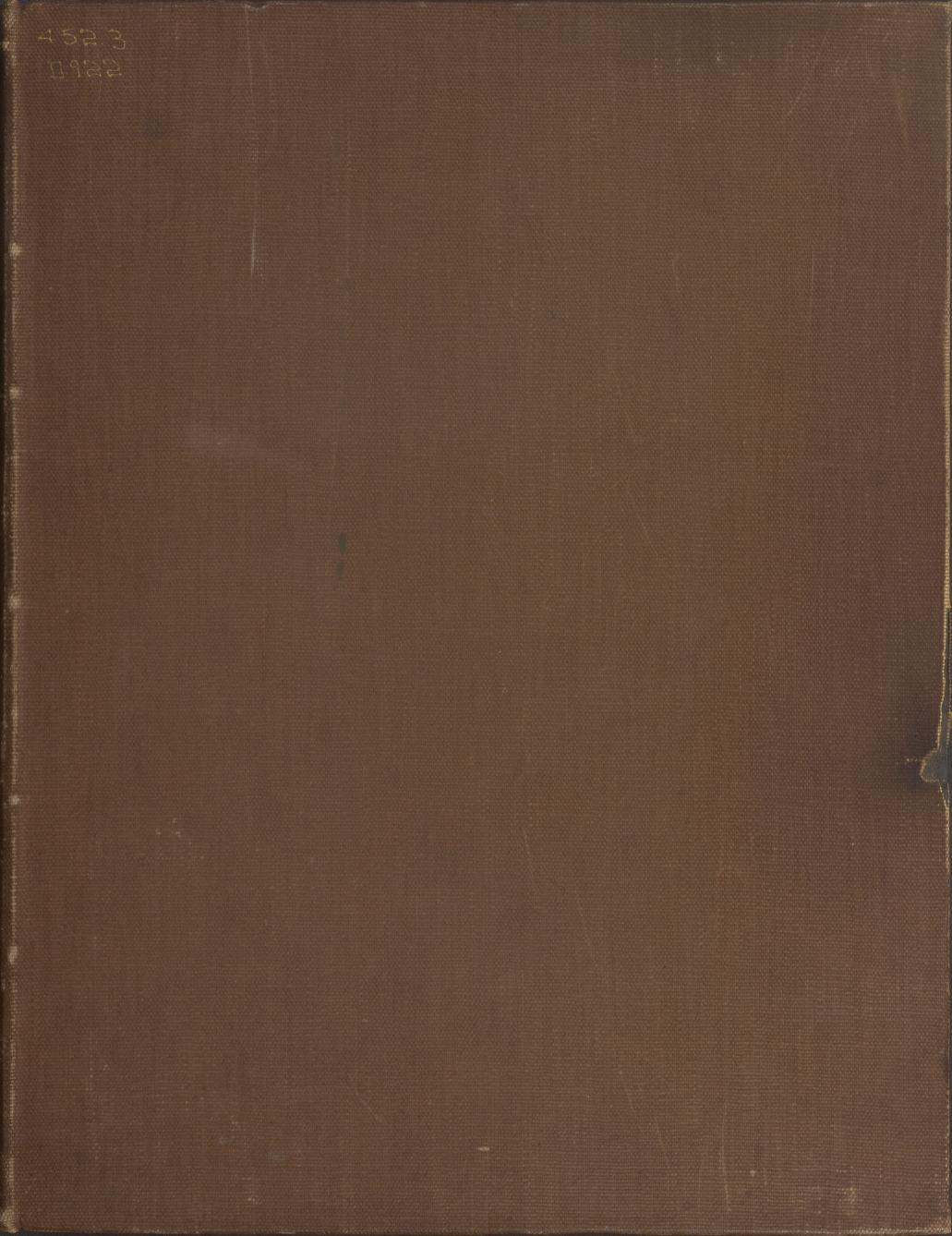
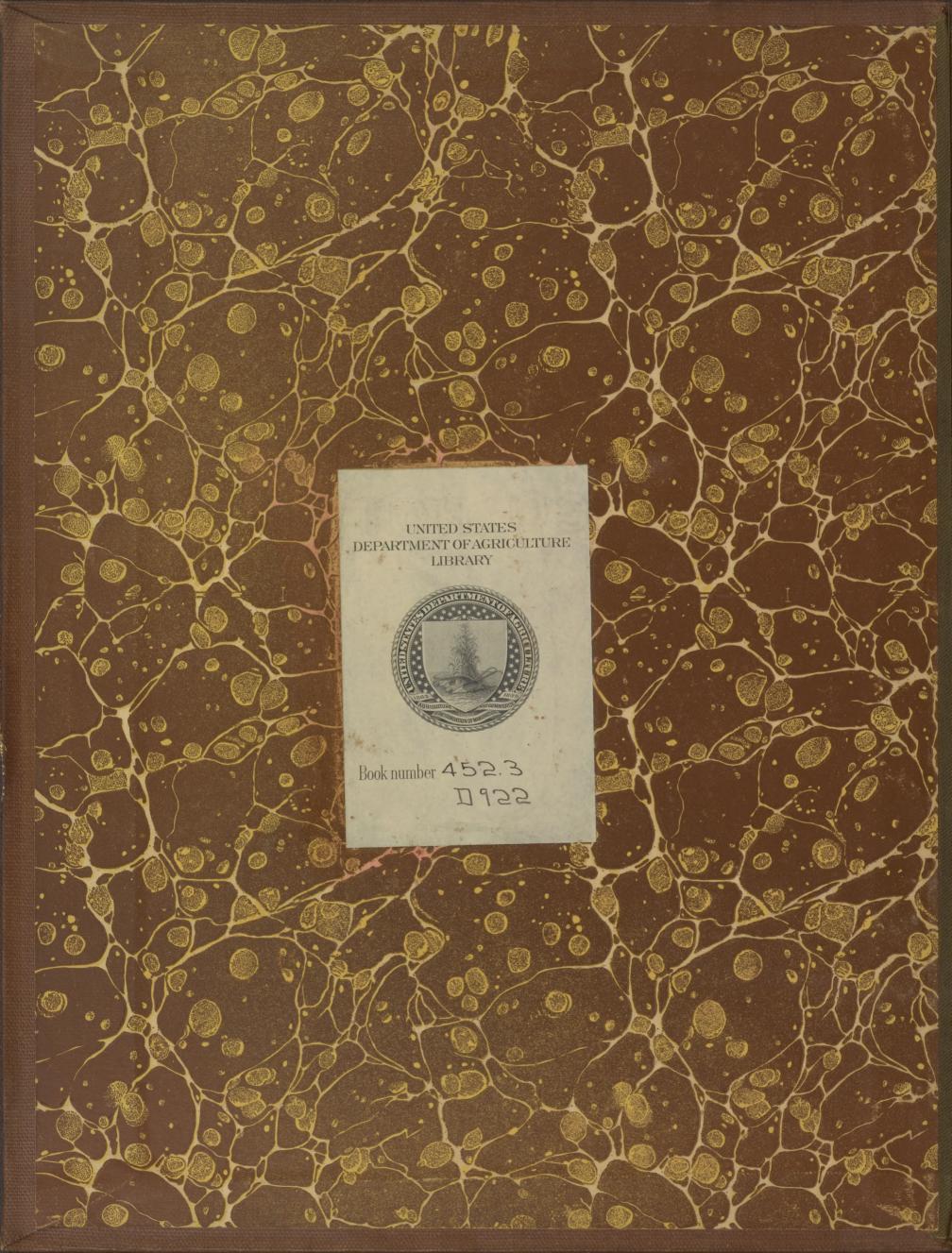
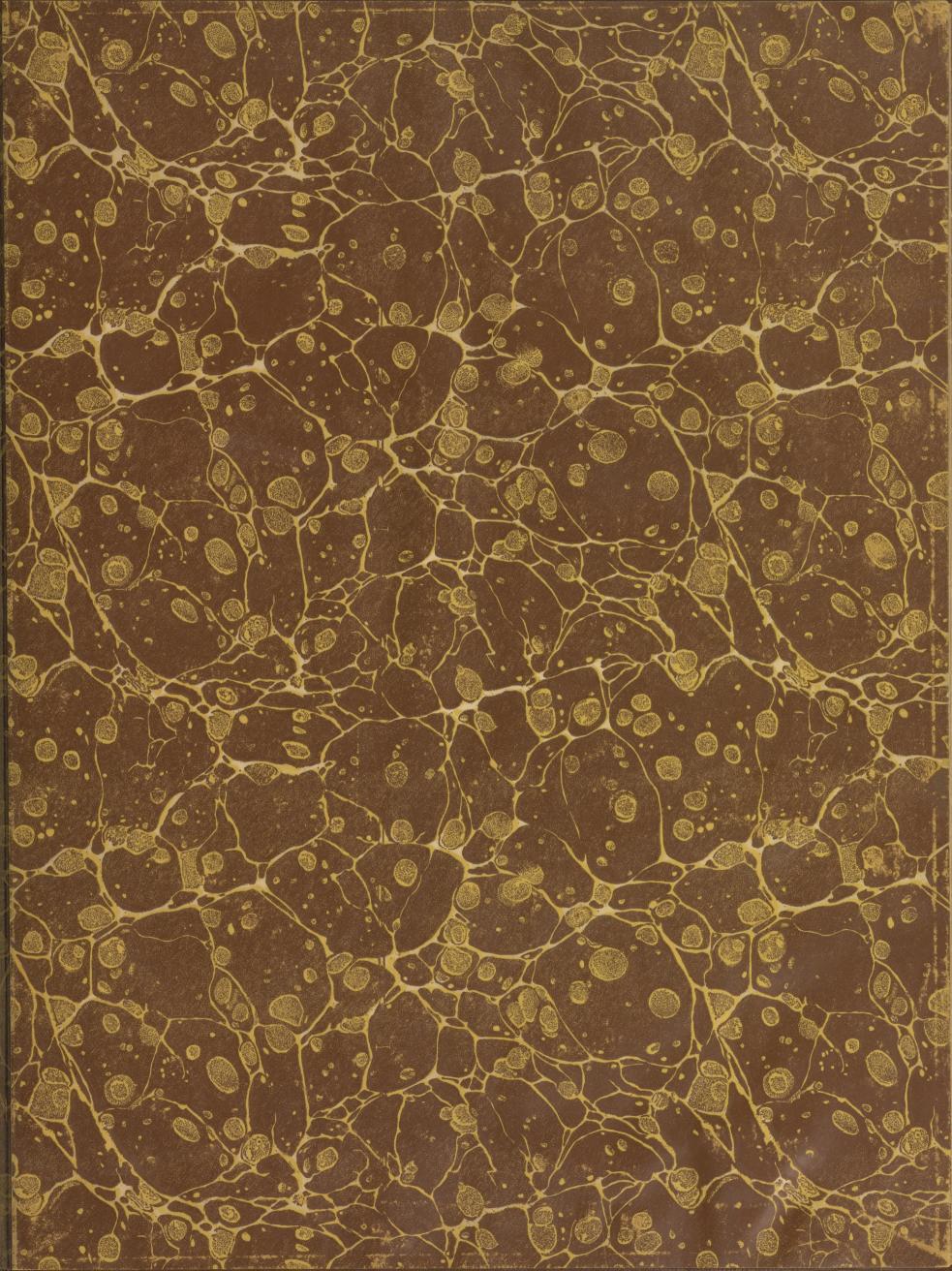
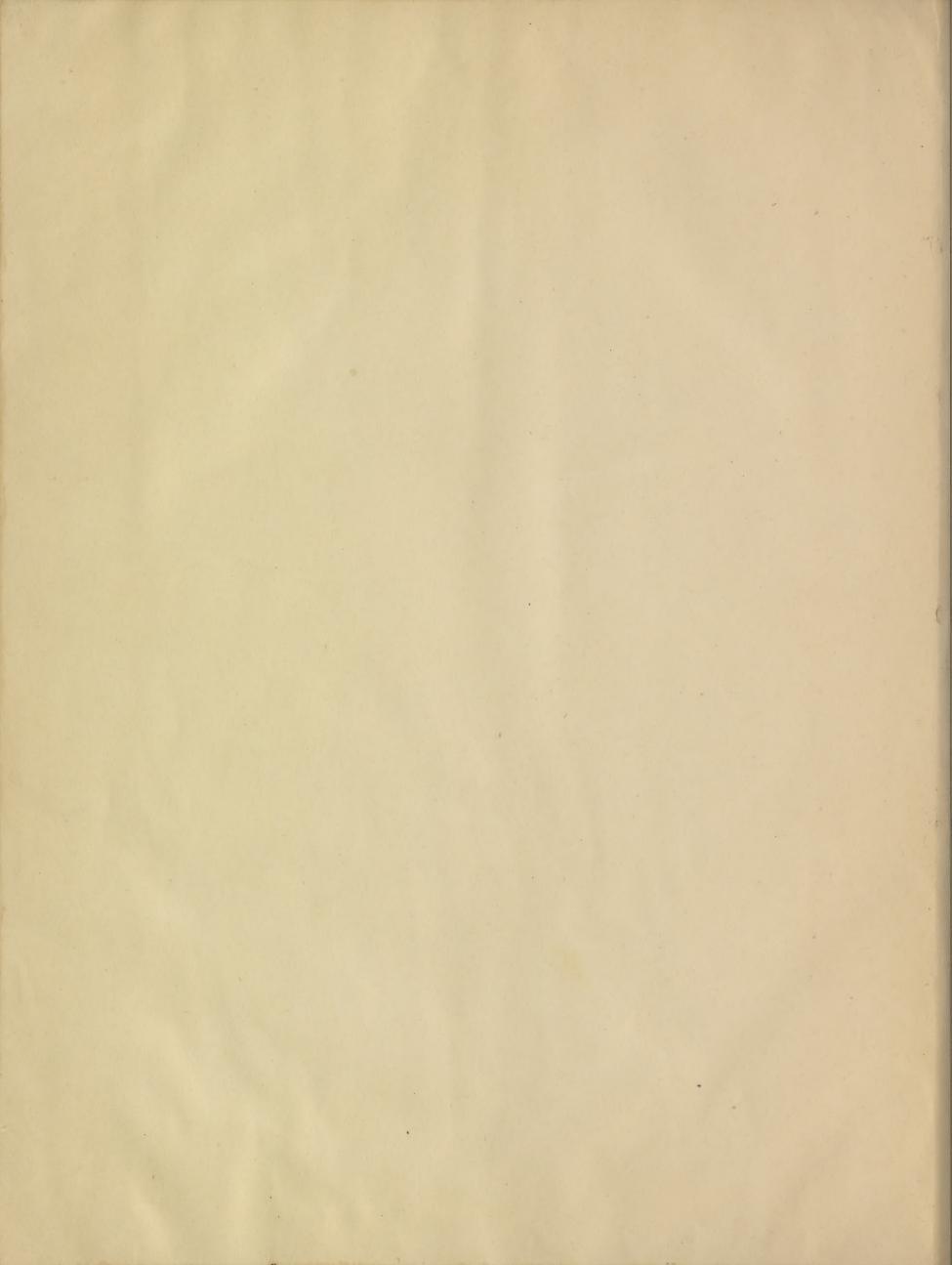
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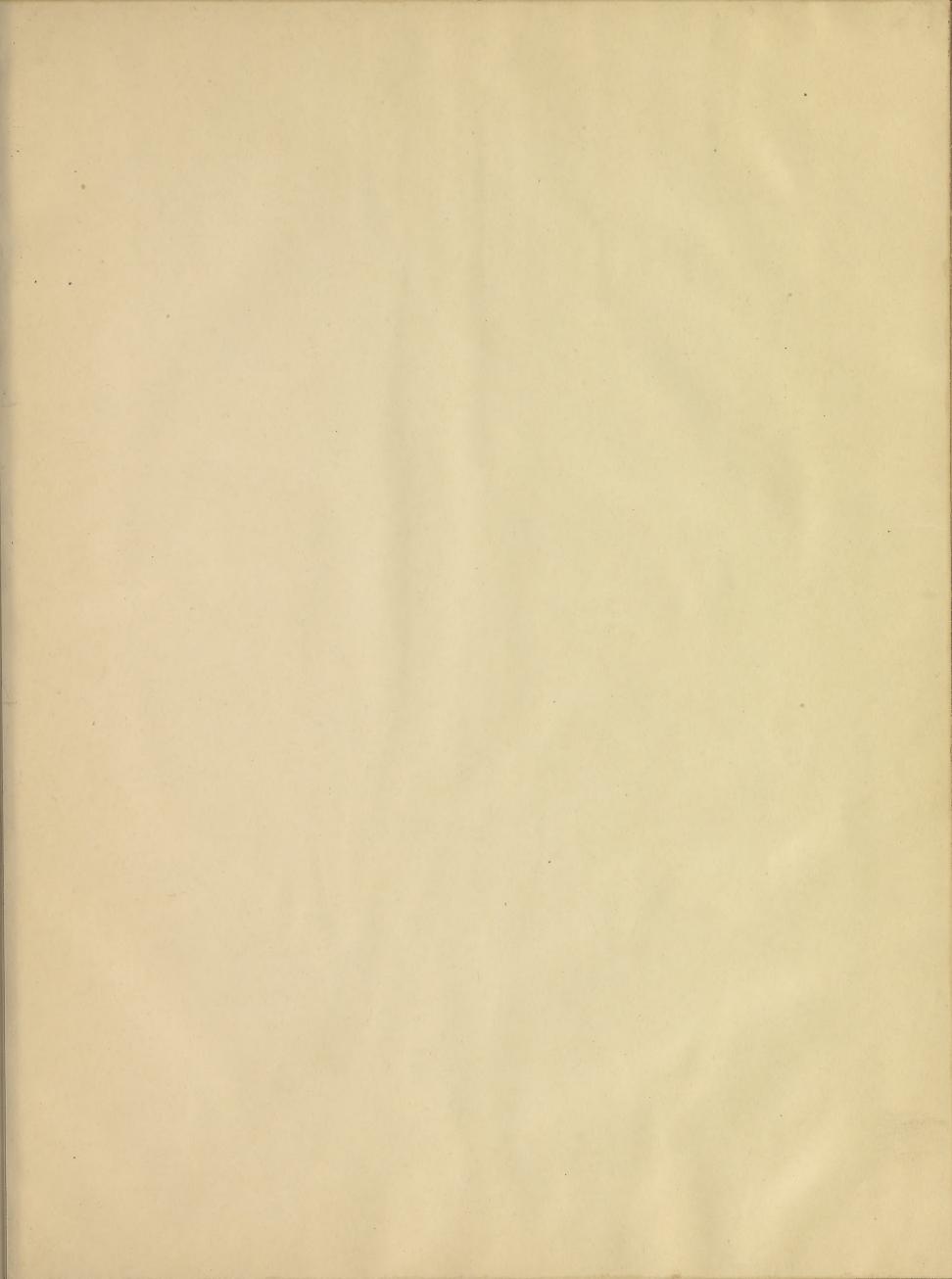
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THE LOTUS

RDUPPA

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# ILLUSTRATIONS

OF THE

# LOTUS OF ANTIQUITY.

By R. DUPPA, LL.B.

LONDON:

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THE

# LIBYAN LOTUS.

The Lotus of antiquity having given rise to many interesting inquiries, the following extracts are printed, to present them in one view to the scholar.

Plants of very different kinds were known to the ancients under the name of Lotus; but as botany, by the early writers, was not reduced to any settled principles, their descriptions are often obscure or unintelligible. A similarity of quality, or of supposed virtues, often supplied the place of botanical resemblance. Amongst us, we have a Balsam of Gilead which is a tree, and another, an herbaceous plant; and our familiar nomenclature often brings together plants that have no botanical relation. The Greeks had an Acanthus, which was an annual, and a tree of the same name. It is also certain that trees and herbaceous plants of very different habits and character were called Lotus, from the age of Homer to that of Dioscorides and Pliny. That which I shall first illustrate I have denominated the Libyan Lotus, the Rhamnus Lotus of Linnæus.

The earliest description of this tree, or rather of its fruit, is to be found in Herodotus, the effects of which are thus described by Homer:

Καὶ νύ κεν ἀσκηθης ἱκόμην ἐς πατρίδα γαῖαν, ᾿Αλλά με κῦμα, ξόος τε, περιγνάμπτοντα Μάλειαν, Καὶ βορέης ἀπέωσε, παρέπλαγξεν δὲ Κυθήρων. Ἔνθεν δ' ἐννῆμαρ φερόμην όλοοῖς ἀνέμοισι Πόντον ἐπ' ἐχθυόεντ' αὐτὰρ δεκάτη ἐπέβημεν Γαίης Λωτοφάγων, οἱ τ' ἄνθινον εἶδαρ ἔδουσιν.

"Ενθα δ' επ' ήπείρου βημεν, και άφυσσάμεθ' ύδωρ" Αίψα δε δείπνον έλοντο θοής παρά νηυσιν εταίροι. Αυτάρ επεί σίτοιό τ' επασσάμεθ', ήδε ποτήτος, Δη τότ' έγων ετάρους προίην πεύθεσθαι ἰόντας, ( 'Ανδρε δύω πρίνας, τρίτατον πήρυχ' άμ' οπάσσας,) Οίτινες ανέρες είεν επί χθονί σίτον έδοντες. Οί δ' αίψ' οιχόμενοι μίγεν ανδράσι Λωτοφάγοισιν. Ουδ άρα Λωτοφάγοι μήδουθ' ετάροισιν όλεθρου Ήμετέροις, αλλά σφι δόσαν λωτοῖο πάσασθαι. Των δ΄ όστις λωτοῖο φάγοι μελιηδέα καρπον, Ουκ ετ' απαγγείλαι πάλιν ήθελεν, ουδε νέεσθαι. 'Αλλ' αὐτοῦ βεύλοντο μετ' ἀνδράσι Λωτοφάγοισι Λωτον ερεπτόμενοι μενέμεν, νόστου τε λαθέσθαι. Τους μεν έγων επί νηας άγον κλαίοντας ανάγκη, Νηυσι δ΄ ενὶ γλαφυρησιν ύπο ζυγα δησα εξύσσας. Αὐτὰρ τοὺς ἄλλους κελόμην ἐρίηρας ἑταίρους Σπερχομένους νηῶν ἐπιβαινέμεν ωκειάων, Μή πω τις λωτοίο φαγών νόστοιο λάθηται. Οί δ' αίψ' είσβαινου, και επί κληίσι κάθιζου. Εξης δ' έζόμενοι πολιην άλα τύπτον έρετμοῖς.

Odys. Lib. ix. 1.79.

The island on which Ulysses is supposed to have discovered this tree, was on the coast of Africa. At the two extreme points of land which form the gulph, called the Lesser Syrtis, there are three small islands; two at the northern extremity, which are called Circinitis and Circina; and one at the southern extremity, which is the largest of the three, now called Jerba, anciently Meninx, or the island of the Lotophagi. These islands are thus described by Strabo: —παράκειται δὲ τῆ ἄρχη τῆς Σύρτεως νῆσος παραμήκης, ἡ Κέρκιννα, εὐμεγέθης, ἔχουσα ὁμώνυμον πόλιν. καὶ ἄλλη ἐλάτ]ων Κερκιννῖτις. Συνεχὴς δ' ἐςὶν ἡ μικρὰ Σύρις, ἡν καὶ Λωτοφαγῖτιν Σύριν λέγουσιν. Έςι δ' ὁ μὲν κύκλος τῦ κόλπου τούτε, ςαδίων χιλίων ἑξακοσίων τὸ δὲ πλάτος τῦ ςόματος ἑξακοσίων. καθ' ἑκαβέραν τὴν ἄκραν ποιῦσαν τὸ ςομα, προσεχεῖς εἰσὶ νῆσοι τῆ ἡπείρω, ἤτε λεχθεῖσα Κέρκιννα καὶ ἡ Μήνιγξ, πάρισοι τοῖς μεγέθεσι. Τὴν δὲ Μήνιγγα νομί-ξεσιν είναι τὴν τῶν Λωτοφάγων γῆν, τὴν ὑφ' Ομήρου λεγομένην καὶ δεικνθαί τινα

σύμδολα, καὶ βωμὸς Ὁδυσσεως, καὶ ἀυζὸς ὁ καρπός πολὺ γάρ ἐς ι τὸ δενδρον ἐν αυζη τὸ καλέμενον λωτὸν, ἔχον ήδις ον καρπόν Lib. xvii. p. 834.

The ancient authors who have particularly mentioned or described this tree, are, Herodotus, Theophrastus, Polybius, Dioscorides, and Pliny, from whose works the following extracts are made.

# HERODOTUS.

'Απτήν δὲ προέχεσαν ες τὸν Πόντον τέτων τῶν Τινδίνων νέμονται Λωτοφάγοι' οῖ τὸν καρπὸν μενον τε λωτε τρώγοντες ζώεσι' ὁ δὲ τε λωτε καρπὸς, ἔστι μεγαθος όσον τε τῆς σχίνε 'γλυκύτητα δὲ, τε φοίνικος τῷ καρπῷ προσείκελος' ποιευνται δὲ ἐκ τε καρπε τέτε οἱ Λωτοφάγοι καὶ οἶνον.

Lib. iv. cap. 177. p. 359.

#### THEOPHRASTUS.

"Εςι δὲ τῦ λω]ῦ, το μὲν ἴδιον γένος ἐυμέγεθες, ἡλίκον ἄπιος ἢ μικρον ἔλα]τον. φύλλον δὲ, ἐν]ομας ἔχον καὶ πρινῶδες . το μὲν ξύλον, μέλαν γένη δὲ ἀυ]ῦ πλείω διαφορὰς ἔχον]α τοῖς καρποῖς . ὁ δὲ καρπὸς ἡλίκος κύαμος . πεπαίνε]αι δὲ ὥςπερ οἱ βότρυες, με]αδάλλων τὰς χροιάς φύε]αι δὲ καθάπερ τὰ μύρ]α παράλληλα . πυκνὸς ἐπὶ τῶν βλαςῶν ἐσθιόμενος δὲ ἐν τοῖς Λωτοφάγοις καλεμένοις γλυκύς ἡδύς καὶ ἀσινής καὶ ἔτι πρὸς τὴν κοιλίαν ἀγαθόν . ἡδίων δὲ ἀπύρηνος . ἔςι γὰρ καὶ τοιῦτον γένος . ποιῶσι δὲ καὶ οἶνον ἐξ ἀυ]ῦ . πολύ δὲ τὸ δένδρον καὶ πολύκαρπον . τὸ ἕν 'Οφέλλε ςρα]όπεδον ἡνίκα ἐδάδιζεν εἰς Καρχηδόνα, καὶ τῆς λω]οφαγίας Φάριδι καλεμένη, πολύς. ἀυ]ὴ δὲ ἀπόκει]αι καὶ ἀπέχει μικρόν ε μὴν ἐνταῦθα μόνον, ἀλλὰ πολλῷ πλείων ἐν τῆ ἡπείρω . πλείξον γὰρ ὁλως ἐν τῆ Λιδύη καθάπερ ἔιρη]αι, τῦτο, καὶ ὁ παλίερός ἐςιν . ἐν γὰρ Ἐσπερίσι, τέτοις εἰς καῦσιν χρῶν]αι . διαφέρει δὲ ἕτος ὁ λω]ὸς τῦ παρὰ τοῖς λω]οφάγοις.

Lib. iv. Δ΄ c. 4. δ.

## POLYBIUS.

"Εςι δὲ τὸ δένδρον ὁ λωτὸς οὐ μέγα, τραχὺ δὲ καὶ ἀκανθῶδες. ἔχει δὲ φύλλον χλωρὸν παραπλήσιον τῆ ξάμνω, μικρὸν βαθύτερον καὶ πλατύτερον. ὁ δὲ καρπὸς τὰς μὲν ἀρχὰς ὅμοιός ἐςι καὶ τῆ χρόα καὶ τῷ μεγέθει ταῖς λευκαῖς μυρτίσι ταῖς τελειωμέναις αὐξανόμενος δὲ τῷ μὲν χρώμαλι γίνεται φοινικοῦς, τῷ δὲ μεγέθει ταῖς ςρογγύλαις ἐλαίαις παραπλήσιος πυρῆνα δ΄ ἔχει τελέως μικρόν . ἐπὰν δὲ πεπανθῆ, συναγουσιν καὶ τὸν μὲν τοῖς οἰκέταις μέτα χόνδρου κόψανλες, σάτλουσιν εἰς ἀγγεῖα τὸν δὲ τοῖς ἐλευθέροις, ἐξελόν-

τες τον πυρήνα, συν ιθέασιν. ώσαύτως καὶ σιτευον αι τέτον. ἔςι δὲ τὸ Ερωμα παραπλήσιον σύκω, καὶ φοινικο Εαλάνω τῆ δ΄ εὐωδία Εέλ ιον . γίνεται δὲ καὶ οἶνος ἐξ ἀυτε Ερεχομένε καὶ τρι Εομενε δὶ ὕδατος, κατὰ μὲν τὴν γεῦσιν ἡδὺς καὶ ἀπολαυςικὸς, οἰνομέλ ι χρης ῷ παραπλήσιος, ῷ χρῶνται χωρίς ὕδαθος. ἐ δύναται δὲ πλέον δέκα μένειν ἡμερῶν. διὸ καὶ ποιουσι κατὰ Εραχὺ πρὸς τὴν χρείαν ποιεςι δὲ καὶ ὅξος ἐξ αὐτῶν.\*

Athenaeus, Lib. xiv. p. 651. D.

## DIOSCORIDES.

Λωτὸς τὸ δένδρον, φυτόν ἐς ιν εὐμέγεθες . καρπὸν δέ φερει μείζονα πεπέρεως γλυκύν. Lib. i. ά. c. 171. ροά.

# PLINY.

Eadem Africa, qua vergit ad nos, insignem arborem loton gignit, quam vocant celtin, & ipsam Italiæ familiarem, sed terra mutatam. Præcipua est circa Syrtes atque Nasamonas. Magnitudo, quæ piro: quanquam Nepos Cornelius brevem tradit. Incisuræ folio crebriores, quae ilicis videntur. Differentiæ plures, eæque maxime fructibus fiunt. Magnitudo huic fabæ, color croci, sed ante maturitatem alius atque alius, sicut in uvis. Nascitur densus in ramis myrti modo, non ut in Italia, cerasi: tam dulci ibi cibo, ut nomen etiam genti terræque dederit, nimis hospitali advenarum oblivione patriæ. Ferunt ventris non sentire morbum, qui eum mandant. Melior sine interiore nucleo, qui in altero genere osseus videtur. Vinum quoque exprimitur illi, simile mulso, quod ultra denos dies negat durare idem Nepos: baccasque concisas cum alica ad cibos doliis condi. Quin & exercitus pastos eo accepimus, ultro citroque commeantes per Africam. Ligno colos niger. Ad tibiarum cantus expetitur. E radice cultellis capulos, brevesque alios usus excogitant. Hæc ibi natura arboris. Pliny, Lib. xiii. c. 17.

Among modern travellers, Dr. Shaw, describing the Lotus, says, "it is the same plant as the Seedra of the Arabs. It is a shrub very

<sup>\*</sup> This is an extract preserved in the works of Athenaeus from the 12th book of Polybius, which is lost.

common in the Jereede and other parts of Barbary, and has the leaves, thorns, flower, and fruit of the Ziziphus or Jujeb; only with this difference, that the fruit is there round, small, and more luscious, at the same time the branches, like those of the Paliurus, are neither so much jointed nor crooked. This fruit is in great repute, tastes something like gingerbread, and is sold in the markets all over the southern districts of these kingdoms. The Arabs call it ANEB ENTA EL SEEDRA, i. e. the Jujeb of the Seedra."

Dr. Shaw's Travels, 4to. p. 143.

Mungo Park, in his travels in the interior of Africa, observed two negroes sitting among some thorny bushes, who had been gathering tomberongs, of which he gives this account:- "These are small farinaceous berries, of a yellow colour and delicious taste, which were no other than the fruit of the Rhamnus Lotus of Linnæus. They had gathered two large baskets-full in the course of the day. These berries are much esteemed by the natives, who convert them into a sort of bread, by exposing them for some days to the sun, and afterwards pounding them gently in a wooden mortar, until the farinaceous part of the berry is separated from the stone. This meal is then mixed with a little water, and formed into cakes, which, when dried in the sun, resemble in colour and flavour the sweetest gingerbread. The stones are afterwards put into a vessel of water, and shaken about, so as to separate the meal which may still adhere to them; this communicates a sweet and agreeable taste to the water, and with the addition of a little pounded millet, makes a pleasant gruel called fondi, which is the common breakfast in many parts of Ludamar, during the months of February and March. The fruit is collected by spreading a cloth upon the ground, and beating the branches with a stick.

"The Lotus is very common in all the kingdoms which I visited, but is found in greatest plenty on the sandy soil of Kaarta, Ludamar, and the northern parts of Bambarra, where it is one of the most common shrubs of the country.

" As this shrub is found in Tunis, and also in the Negro kingdoms,

and as it furnishes the natives of the latter with a food resembling bread, and also with a sweet liquor which is much relished by them, there can be little doubt of its being the Lotus mentioned by Pliny, as the food of the Libyan Lotophagi."

Mungo Park's Travels in Africa, 4to. c. viii. p. 99.

#### TRANSLATION.

From the Odyssey.

PAGE 3.

Καὶ νό κεν ἀσκηθης ἱκόμην ἐς πατρίδα γαῖαν.

And now, all danger pass'd, I had attain'd My native shore, but, doubling in my course Malea, waves and currents and North-winds Constrain'd me devious to Cythera's isle. Nine days by cruel storms I thence was borne Athwart the fishy Deep, but on the tenth Reach'd the Lotophagi, a race sustain'd On sweetest fruit alone. There quitting ship, We landed and drew water, and the crews Beside the vessels took their ev'ning cheer. When, hasty, we had thus our strength renew'd, I order'd forth my people to inquire (Two I selected from the rest, with whom I join'd an herald, third) what race of men Might there inhabit. They, departing, mix'd With the Lotophagi; nor hostile aught Or savage the Lotophagi devised Against our friends, but offer'd to their taste The lotus; of which fruit what man soe'er Once tasted, no desire felt he to come With tidings back, or seek his country more, But rather wish'd to feed on lotus still With the Lotophagi, and to renounce All thoughts of home. Them, therefore, I constrain'd Weeping on board, and dragging each beneath The benches, bound him there. Then, all in haste, I urged my people to ascend again Their hollow barks, lest others also, fed With fruit of lotus, should forget their home.

Cowper, Odyssey, Book ix.

From Strabo.

PAGE 4.

Παςάκειτας δὲ τῆ ἄςχη τῆς Σύςτεως—

At the commencement of the Syrtis is the oblong island Circinna, of a considerable size, with a city upon it of the same name, and another island, smaller, called Circinnitis; and contiguous, is the lesser Syrtis, called the Syrtis of the Lotophagi. The circumference of this bay is 1600 stadia,\* and the breadth, at the entrance, 600. At each promontory making the entrance, there are islands near to the main land, called Circinna and Meninx, equal in size. And the Meninx is supposed to be the land of the Lotophagi mentioned by Homer, of which there is some evidence; an altar of Ulysses is shown there, and the fruit itself may be seen, for on the island the Lotus-tree abounds, which produces a very sweet fruit. Strabo, Book xvii. p. 834.

#### HERODOTUS.

PAGE 5.

The coast of these Gindenes (an African people), which projects into the sea, is inhabited by the Lotophagi, who live entirely on the fruit of the Lotus. The fruit of the Lotus is about the size of the Pistacia-nut; † in sweetness, it is like the fruit of the palm-tree. Of this fruit the Lotophagi also make wine. Book iv. cap. 177, p. 359.

#### THEOPHRASTUS.

PAGE 5.

Of the Lotus, the particular kind is of a considerable size, about as large as a pear-tree, or somewhat less, having a leaf serrated like the leaf of the Quercus Ilex. The wood is of a dark colour. There are many kinds, differing in the fruit. The fruit is like the bean: as the grape, it changes colour as it ripens; but, like myrtle-berries, it is produced thick and close upon the shoots. It is eaten by those people called Lotophagi; it is innocent, of an agreeable sweetness, and good for the bowels. There is one kind which has no stone, and that is sweeter: of this, wine is made. The trees of this kind are plentiful, and the fruit is abundant. The army of Ophellas, on his march to Carthage, being short of provisions, is said to have subsisted for many days on this fruit. In the island of the Lotophagi, called Pharis, it is plentiful. This island lies at a short distance from \_\_\_\_\_\_. § It abounds not only there, but still more abundantly on the main land; for this tree and the Paliurus § grow more abundantly in Africa than any where else, as has been said; insomuch, that in the country of the Hesperides they are used for fuel. This last Lotus is somewhat different from that of the Lotophagi. Theophrastus, Book iv. c. 4.

- \* A Stadium is 625 Roman feet according to Pliny, Lib. ii. c.23. An ancient Roman foot is in the proportion to an English foot as 967 is to 1000. Vide Lucas Paetus, and Greaves.
- † The  $\Sigma \chi'_{1705}$  of Dioscorides is thought to be the same tree which yields the gum mástick, which we suppose to be the *Pistacia* lentiscus of Linnaeus. Vide Dios. Lib. 1, c. 89 and 90.
  - ‡ That is, in size, like the seed of the TAMARA. See Plate 5.
- § Here the text appears to be corrupt. I have translated, as if, instead of ἀπόκειται καὶ, the reading were ἀπὸ, with the name of a place.
  - || The Rhamnus paliurus of Linnaeus is so called, from being supposed to be this species.

#### POLYBIUS.

PAGE 5.

The Lotus is not a large tree, but rough and thorny. It bears a green leaf, resembling that of the Rhamnus,\* but a little thicker and broader. The fruit, at first, in size and colour, is like white myrtle-berries full grown; † but as it grows it becomes of a pink colour, and of the size of the round olive. It has an extremely small stone. When it is ripe it is collected, and, if it be intended for the consumption of the slaves, it is chopped up with frumenty ( $\chi \acute{o} \nu \acute{o} \rho o \varsigma$ , is grain swelled with water), and pressed close in jars. That which is intended for the use of freemen, has the stone taken out, and is afterwards compounded in the same manner. On this they feed. In taste it resembles the fig or date, but it smells more agreeably. Wine is also made of this fruit by steeping and bruising it, mixed with water. This wine is pleasant to the taste, like good  $oiv\acute{o}\mu\epsilon\lambda\iota$  (a preparation of wine and honey), and is drunk without being lowered with water, but will not keep more than ten days, therefore it is made in small quantities for immediate use. Vinegar is also made of it.

Athenœus, Book xiv. p. 651.

#### DIOSCORIDES.

PAGE 6.

The Lotus-tree is of a considerable size, and bears a sweet fruit larger than pepper. Book i. c. 171.

#### PLINY.

PAGE 6.

That part of the coast of Africa which borders on the Mediterranean, produces that celebrated tree the Lotus, which is also called *Celtis*; and is common with us in Italy, but is changed by the climate. It grows chiefly near the *Syrtes*, and the country of the *Nasamones*. It is of the size of a pear-tree, although Cornelius Nepos calls it small. The leaf, which resembles that of the evergreen-oak, is more serrated. Of this Lotus there are many varieties, which are chiefly distinguished by the fruit.‡ The fruit is of the size of a bean, and of the colour of saffron; but changes as it ripens, like the grape. It grows thick on the branches, like myrtle-berries, not like cherries, as in Italy. The taste of it is so sweet in Africa, that it has given name to a people and a district, whose excess of hospitality caused their guests to forget their native country.

It is said, that those who eat of it are not subject to pains in the bowels. The best sort is without kernel, for there is one kind which has a stone. Wine is also made of it like mulsum; \\$ which the same Nepos says will not keep more than ten days. He also says, that the fruit mixed with alica (the same as \(\chi^{\infty}\oldog\gamma^{\infty

- \* This is some species of what we denominate Buck-thorn, probably the same as the Rhamnus paliurus of Linnaeus, just cited.
- † This is probably the Italian Myrtle, which by our gardeners is called the *Upright Myrtle*, of which there is a variety that produces white berries of a small size. The berries of the common Myrtle, *Myrtus communis* of Linnaeus, when ripe, are of a dark purple, or black blue colour.
  - † Of the Tree-Lotus, Pliny mentions a peculiar kind, very different from this of which he is now speaking, Lib. xvi. c. 30.
- § Mulsum, is usually translated Mede. It was a preparation of wine and honey, the same as οἰνόμελι in Polybius.
- This account referred to, of Cornelius Nepos, seems to have been copied from Polybius; from which, it would seem Pliny was not acquainted with Polybius's description of the Lotus when he wrote this, or he would not have taken a modern authority for one more ancient, from which it was derived, or, at least, if not derived, containing so far, precisely the same information.

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This tribe of plants has not yet been accurately distinguished by modern botanists. Since the death of Linnæus, three separate genera have been made of his genus Nymphaea. If, therefore, modern knowledge, with all the helps of systematic writers who have laboured in this useful department, be still imperfect, it would be vain to hope for precision and accuracy from the descriptions of Theophrastus and Pliny: we have, however, good data to be convinced that the herb-Lotus of antiquity was an aquatic and an ornamental plant; that it had a capsula like a poppy, and petals like a white lily; that it was abundant in Ægypt, in the plains overflowed by the Nile; that its root was esculent, and its seeds, which were numerous and minute, were employed to make bread. It is thus described by ancient authors:—

#### HERODOTUS.

Ατάρ πρὸς εὐτελείην τῶν σιτίων τάδε σφὶ ἄλλα ἐξεύρηται ἐπεὰν πλήρης γένηται ὁ ποταμὸς, καὶ τὰ πεδία πελαγίση, φύεται ἐν τῷ ὕδατι κρίνεα πολλὰ, τὰ Αἰγύπ]ιοι καλέκσι λωτόν. ταῦτ ἐπεὰν δρέψωσι, ἀυαίνκσι πρὸς ἡλιον καὶ ἔπειτα τὸ ἐκ τῆ μέσκ τῆ λωτῆ, τῆ μήκωνι ἐὸν ἐμφερὲς, πτίσαντες, ποιεῦνται ἐξ αὐτῆ ἄρτκς ὁπθὲς πυρί ἔςι δὲ καὶ ἡ ῥίζα τῆ λωτῆ τκτκ ἐδωδίμη καὶ ἐγγλύσσει ἐπιεικέως, ἐὸν ςρογγύλον, μέγαθος κατὰ μῆλον.

Lib. ii. c. 121.

#### THEOPHRASTUS.

\*Ο δὲ λωτὸς καλέμενος, φύεται μὲν ὁ πλεῖςος ἐν τοις πεδίοις, ὅταν ἡ χώρα καῖακλυσθῆ . τέτε δὲ ἡ μὲν τῷ καυλῷ φύσις ὁμοία τῆ τῷ κυάμε . καὶ οἱ πέτθασοι δὲ ὧσαυτως, πλὴν ἐλάτθες καὶ λεπθότεροι . επιφύεθαι δ' ὁμοίως ὁ λωτὸς τῷ τῷ κυάμε . τὸ ἄνθος ἀὐθοῦ

λευκον, εμφερές τη ζενότηλι των φύλλων τοῖς των κρίνων πολλά δε και πυκνά επαλλήλες φύεται . ταῦ ζα δ' όταν μεν ὁ ήλιος συμμύη, συγκαλύπζει την κωδίαν . άμα δὲ τῆ ἀνατολή διοίγεζαι, καὶ ὑπὲρ τε ὕδατος γίνεζαι . τέτο δὲ ποιεῖ, μέχρις ἀν ἡ κωδία ἐκτελεωθῆ, καὶ τὰ άνθη περιβρύη. της δε κωδίας το μέγεθος ήλίκου μήκωνος της μεγίςης, και δίεζως αι ταῖς καλαλομαϊς του αυλου τρόπου τη μήκωνι. πλην πυκνότερος εν λαυταις ο καρπός ες δε παρόμοιος τῆ κέγχρω εν δὲ τῷ Εὐφράτη τὴν κωδίαν φασὶ καὶ τὰ ἄνθη δύνειν, καὶ ὑποκα-Ταβαίνειν της ώρας δειλινής μέχρι μέσων νυκτών, και τῷ βάθει πόρρω κός γάρ καθιέντα την χείρα λαβείν είναι μετά δε ταῦτα όταν όρθρος ή, πάλιν επανιέναι. καὶ προς ήμεραν ἔτι μᾶλλον άμα τῷ ἡλίω φανερον ὑπερ τε ύδατος, καὶ ἀνοίγειν τὸ ἀνθος. ἀνοιχθένδος δὲ ἔτι ἀναβαίνειν. συχνὸν δὲ τὸ ὑπεραῖρον εἶναι τὸ ὕδωρ. Γας δὲ κωδίας ΓάυΓας οἱ ΑἰγύπΓιοι συνθέντες είς τὸ ἀὐρὸ, σήπεσιν ἐπὰν δὲ σαπῆ τὸ κέλυφος, ἐν τῷ ποραμῶ κλύζοντες, έξαίρεσι τὸν καρπόν. ξηρανάντες δὲ καὶ ὀπήσαντες, ἄρτες ποιέσι, καὶ τέτω χρών]αι σιτίω ή δε ρίζα τη λωβή καλείται μεν κόρσιον. έςι δε ςρογγύλη το μέγεθος, ήλίκον μηλου κυδώνιου φλοίος δε περίκεί αι περί αυτήν μέλας, εμφερής τῷ κας αναϊκῷ καρύῳ. τὸ δε ενδός λευκόν εψόμενον δε και οπθώμενον γίγνεται λεκυθώδες. ήδυ δε εν τη προσφορά. έσθίεται δε και ώμόν. άρίςη δε έν τῷ ὕδατι ἀθης, ώμη, και τὰ μεν έν τοῖς ὕδασι σχεδον ταυτά ες ιν. Lib. iv. c. 10.

## DIOSCORIDES.

Λωτὸς ὁ ἐν ᾿Αἰγύπὶ ὡ γεννώμενος ἐν τῷ ὕδατι τῶν ἐπικλυσθένὶων πεδίων, καυλός ἐςι
τῷ τᾶ κυάμε ἐμφερής: ἔχων ἀνθος μικρὸν, λευκὸν, ἐοικὸς κρίνῳ, ὁ φασὶ κατὰ Ἰὰς ἀναῖολὰς τᾶ ἡλίε ἀπλᾶςθαι, δύνονὶος δὲ μύειν καὶ ὅλην τὴν κωδίαν κρύπὶεσθαι ἐν τῷ ὕδαὶι,
πάλιν τὲ πρὸς τὴν ἀναῖολὴν τοῦ ἡλίε ὑπερκύπὶειν. ἔοικε δὲ ἡ κωδία μήκωνι μεγίςη. ἐν ἡ
καρπὸς ὡς κέγχρος, ὅν ἔηράναντες οἱ ἐν ᾿Αἰγύπὶῳ, βάλλουσιν εἰς ἀριοποιΐαν. ῥίζαν δὲ ἔχει
ὁμοίαν μηλῳ κυδωνίῳ, ἡ τις καὶ αὐτὴ ἐσθίεται ώμή τε καὶ ἑφθή. ἀναλογεῖ δὲ ἑψηθεῖσα
τῆ ποιότητι λεκύθῳ ώοῦ.

Lib. iv. c. 114. ριδ΄.

# PLINY.

After Pliny has described the tree-lotus, he says, "Est autem eodem nomine et herba, et in Ægypto caulis in palustrium genere. Recedentibus enim aquis Nili riguis provenit similis fabae caule, foliisque densa congerie stipatis, brevioribus tantum, gracilioribusque: cui fructus in capite papaveri similis incisuris, omnique alio modo, intus grana, ceu milium. Incolae capita in acervis putrefaciunt: mox separant lavando, et siccata tundunt, eoque pane utuntur. Mirum est, quod praeter haec

traditur: Sole occidente papavera ea comprimi, et integi foliis. Ad ortum autem aperiri, donec maturescant, flosque qui est candidus, decidat.

Lib. xiii. c. 17.

Pliny, speaking of the Lotus, in the twenty second book, says, "Loton qui arborem putant tantum esse, vel Homero auctore coargui possunt. Is enim inter herbas subnascentes Deorum voluptati, loton primam nominavit.—

Est et lotometra, quae fit ex loto sata, ex cujus semine simili milio, fiunt panes in Ægypto à pastoribus, maxime aqua vel lacte subacto. Negatur quidquam illo pane salubrius esse, aut levius, dum caleat: refrigeratus difficilius concoquitur, fitque ponderosus." Lib. xxii. c. 21.

From these testimonies, there can be no doubt that some kind of the Linnæan Nymphaea was the herb-lotus of Greece and Ægypt. This plant seems to have been in great estimation in the most remote antiquity. Homer, describing the contest between the Greeks and the Trojans, in the 12th Iliad, among other instances, to characterize the fierceness of the combat, and its overwhelming devastation, mentions the destruction of the cultivated fields and the Lotus-plains:

Καὶ πεδία λωζευνζα, καὶ ἀνδρῶν πίονα ἔργα, V. 283.

from which it would seem that Homer meant by the word  $\Lambda\omega\tau\epsilon\tilde{\upsilon}\nu\tau\alpha$ , full of Lotus, to express great fertility and beauty at the same time; for in the 14th book, at the embraces of Jupiter with Juno, the earth is made spontaneously to produce, with the hyacinth and crocus, the "dewy Lotus."

"Η όα, καὶ ἀγκὰς ἔμαρτῆε Κρόνε παῖς ἡν παράκοι]ιν·
Τοῖσι δ' ὑπὸ χθῶν δῖά φύεν νεοθηλέα ποίην,
Λωτόν θ'ἐρσηενῖα, ἰδὲ κρόκον, ἡδ' ὑάκινθον
Πυκνὸν καὶ μαλακόν.—— Il. Lib. xiv. v. 346.

In the 4th book of the Odyssey, where Telemachus has occasion to contrast the fertility of Sparta with the bareness of Ithaca, its abounding with the Lotus is mentioned as a mark of the fertility of Sparta. Hence we may conclude that this plant was highly esteemed in the time of Homer, both for its beauty and its use.

Prosper Alpinus, who travelled into Ægypt in the beginning of the seventeenth century, has given some figures of the herb-lotus then growing on the banks of the Nile, and which, although rude, seem to convey more of the esculent character of this plant, as described by ancient authors, than any representation of it subsequent to his time. The root is round, or keel-shaped, of the size described by Herodotus, τον ερογ-γύλον, μέγαθος κατὰ μῆλον; and the capsula, though not botanically like a poppy, is yet so large, that a plantation of such lilies might well be supposed to yield a sufficient quantity of grain to be materially beneficial to the natives; and although the engraved figures may be defective, yet his description is less liable to objection; speaking of the capsula, he says it is of the size of the medlar. "Floribus succedunt capita rotunda, mespilo magno," similia". De Plantis Exoticis, 4to. p. 223.

The Ambel of India, in the Hortus Malabaricus of the celebrated Rhede, is supposed to be the Nymphaea Lotus of Linnaeus, and the same plant as the Ægyptian Lotus. It would appear from Sir William Jones, as well as from the accurate researches of Dr. Roxburgh, that of this Genus, in India, there are flowers which are white, yellow, blue, rose-coloured, and others variously shaded with pink; some very fragrant, and others without any scent. From the writings of Athenaeus we learn, that the Lotus with the blue petals was known to the ancient Ægyptians;\* and M. Savigny, in the Annales du Muséum National, d'Histoire Naturelle, has presented the public with a figure and a botanical description of a blue Lotus, which is now found growing in the Delta.

According to Willdenow, the genus Nymphaea at present consists of thirteen species; but which, the President of the Linnaean Society has divided into two genera.

<sup>\*</sup> Athenaeus Deipnosoph. Lib. xv. p. 677.

# TRANSLATION.

#### HERODOTUS.

PAGE 9.

To obtain a more plentiful supply of food, they \* (the Egyptians of the marshes) have found out these resources. When the river is full, and the plains inundated, there grow in the water numbers of lilies, which the Egyptians call Lotus. These they gather and dry in the sun: then they pound that which is obtained from the middle of the flower, which is like a poppy-head, and make it into loaves, and bake them with fire. The root also of this Lotus is eatable, and moderately sweet; it is round, and of the size of an apple.

Herodotus, Book ii. c. 121.

#### THEOPHRASTUS.

#### PAGE 9.

The Lotus so called, grows chiefly in the plains when the country is inundated. The nature of the stem is like that of the bean (Tamara of India), † and its large spreading leaves are similar, except that they are less and thinner, and the leaf is attached to the petiolus in the same manner. ‡ The flower is white, the petals are narrow, as those of the Lily (Lilium album), and numerous, as of a very double flower. When the sun is hid, they cover the capsula: as soon as the sun rises the flowers open, and appear above the water; and this is repeated, until the capsula is ripe and the petals fall off.

The size of the capsula is equal to that of the largest poppy-head, and it is divided by separations in the same manner as the capsula of the poppy; but the seed, which is like millet, § is more condensed. It is said, that in the Euphrates, both the capsula and the petals sink down into the water from the evening to midnight to a great depth, so that the hand cannot reach them; afterwards, at day-break they emerge, and as day comes on they rise above the water, and open the petals at sun-rise; and when the flowers are expanded, they rise up still higher, and thus appear to crowd the surface of the water. The Ægyptians lay these capsulæ in heaps to perish, and when the coriaceous covering is rotten, they wash the mass in the river, and take out the seed, which is then dried and baked into loaves, which is used as food. The root of the Lotus is called corsion, which in figure and size is like a quince: the colour of the rind is dark, like a chesnut, but the inside is white; when boiled or baked it is like pease-soup, and is agreeable to the taste: it is also eaten raw. It is best raw, as it grows in the water. Theophrastus, Book iv. c. 10.

- \* Herodotus has just before spoken of the Ægyptians who live in the higher part of the country, out of the reach of the inundation of the Nile, and he now speaks of the inhabitants of the marshes.
  - + See Plate 4.
  - Though this is not strictly true, the general appearance might easily have deceived Theophrastus into this opinion.
- § Millet is the seed of a species of Holcus. This is probably of that species which by Linnaeus is called Holcus sorghum, or some variety of it.

#### DIOSCORIDES.

PAGE 10.

The Lotus which grows in Ægypt, in the water of the inundated plains, has a stem like that of the Bean. The flower is small, and white, like the lily, which is said to expand at sun-rise, and to close at sun-set. It is also said, that the capsula is then entirely hid in the water, and that at sun-rise it emerges again. The capsula is like a very large poppy-head, and the seeds are like millet, which the Ægyptians dry and make into bread. The root, which in appearance is like a quince, is eaten both raw and boiled; when boiled, in quality it is like the yolk of an egg. *Dioscorides*, *Book* iv. c. 114.

#### PLINY.

PAGE 10.

There is also an herb of the same name, and in Ægypt it grows up with an herbaceous stem, as a marsh plant. When the inundating waters of the Nile retire, it comes up with a stem like the Bean, with the petals crowded thick and close, only shorter and narrower. It has a capsula, as to its divisions and in all other respects, like a poppy-head, and contains seeds like millet. The inhabitants lay these capsulæ in heaps to putrify; then wash away the filth, dry the seed, pound it, and make bread of it. There is a further circumstance related concerning this plant of a very remarkable nature; that the poppy-like flowers close up with the setting sun, and the petals entirely cover the capsula; but at sun-rise they open again, and so on, till they become ripe, and the blossom, which is white, falls off. Book xiii. c. 17.

Pliny, speaking of the Lotus, in the twenty-second book, says, "Those who think that there is only a Tree-lotus, may be refuted on Homer's authority alone; for among other herbs produced for the pleasure of the gods, the Lotus is the first named.

"There is a kind of Lotus named *Lotometra*, which is produced from the cultivated Lotus, from whose seed, which is like millet, the Ægyptian shepherds make bread, commonly mixed up with water or milk. It is asserted, that no bread can be more wholesome or light while it is warm; but when cold, it is more difficult of digestion, and becomes heavier." *Pliny*, *Book* xxii. c, 21.

## From the Iliad.

## PAGE 11.

Καὶ πεδὶα λωΙεῦνΙα, καὶ ἀνδρῶν πίονα ἔργα,

Pope has thus translated:

Then the green fields, and then the sandy shore,
Bent with the weight of nodding woods, are seen,
And one bright waste hides all the works of men. Il. Book xii. v. 338.

Cowper has translated the same verse

It is obvious, that these translations are very unlike the Greek; I shall therefore say a few words to explain what appears to me to be the cause of this difference.

Doubtless, Pope and Cowper understood this passage perfectly; but there is a distinction generally to be found between the poets who live in an æra of luxury and refinement, and those who live in the first ages of society. The sentiments of Hesiod and Homer grew out of realities. They painted from objects which

were, or appeared to be, present to them. A modern poet is content with the sentiment, without regarding the truth of the facts from which it is derived: he paints from received associations, and if he produces the ultimate impression on the mind, his purpose is effected.

Examples of minute and particular observation in the Iliad and Odyssey are endless, and when appropriately introduced, they give a charm of reality to poetical description; they awaken our interest, and appear to unite our feelings to those of the poet. In the agricultural description on the shield of Achilles we see the man at plough, and the quality of the land he is turning up into furrows, as distinctly as if we were following his steps.\*

This sentiment of Homer is overwhelming devastation; and if that feeling be conveyed, the translator believes himself to have fulfilled his duty. Here, by the ravages of war, the plains covered with the Lotus, are said to be destroyed. To the Greek poet,  $\pi \varepsilon \delta l \alpha \lambda \omega \tau \varepsilon \tilde{\nu} \tau \alpha$  was sufficiently comprehensive; but the translator, to make the impression stronger, and to heighten the feeling, amplifies his subject without any regard to facts, and at once makes the same words to express green fields, a sandy shore, and nodding woods, yielding to destruction.

Homer gives a portrait of the place and the calamity, and seems himself to be standing upon the shore while he was writing his description. In two words he has implied, that the country was flat, marshy, of a rich muddy soil (not sandy), and covered with water lilies, which were at once most useful and most ornamental.

By  $\partial v \partial_{\xi} \tilde{\omega}v \pi \partial v \alpha \tilde{\epsilon}_{\xi} \gamma \alpha$  we learn, that the arable land was rich in the extreme, and that it was in a high state of cultivation. Thus we have placed before us, what, in a simple state of nature, is most conducive to happiness and essential to our existence; which being swept away, leaves nothing but a wreck of wretchedness and misery.

Here it was natural for Homer to stay. In a more luxuriant and artificial state of society the poet dwells with equal regret on the destruction of whatever delights the imagination. But those afflictions which grow out of our wants and necessities, in an age when war and agriculture are the employments of men, alone fill the mind with interest and concern.

# From the Iliad.

#### PAGE 11.

<sup>4</sup>Η ρα, καὶ άγκὰς ἔμαρπε Κρόνε παῖς ἥν παράκοιεν·

# From Prosper Alpinus.

#### PAGE 12.

Prosper Alpinus has thus described the Herb-lotus, as it grew in Ægypt, when he travelled there, in the year 1580.†

<sup>\*</sup> Il. Lib, xviii. v. 548.

<sup>†</sup> In the text, p. 12, for, "in the beginning of the seventeenth century," read, " at the end of the sixteenth century."

To the flowers succeed round heads, in size like a large medlar, and resembling a great capsula of the Nymphæa Alba, having a green coriaceous covering, with longitudinal membranous divisions within, containing minute seed, like cabbage seed; the stems, as well of the flowers as of the leaves, are long, round, and cellular, and as thick as the little finger, like the Nymphæa Alba. The flower-stems spring from the root, in number about ten, producing as many flowers. Prosper Alpinus de Plantis Exoticis, p. 223.

# TAMARA.

# TRANSLATION.

#### HERODOTUS.

PAGE 13.

There are likewise other Lilies like Roses: and these too grow in the River Nile; whose fructification is produced in a separate capsula, springing like a sucker from the root, in appearance exactly resembling a wasps nest. In this are a number of esculent seeds, about the size of the olive berry. These are also eaten when tender, and dry. *Herodotus*, *Book* ii. c. 121. p. 144.

#### THEOPHRASTUS.

PAGE 13.

The Bean is produced in marshes and in stagnant waters; the length of the stem at the longest is four cubits,\* and the thickness of a finger, like the smooth jointless reed. The inner texture of this stem is perforated throughout like a honey-comb, and upon the top of it is a poppy-like capsula, in circumference and appearance like a wasps nest. In each of the cells there is a bean projecting a little above the surface of the capsula, which usually contains about thirty of these beans or seeds. The flower is twice the size of a poppy, and the colour of a full-blown rose, and is elevated above the water; about each flower are produced large leaves, of the size of a Thessalian hat, having the same kind of stem as the pedunculus or flower stem. In each bean, when broken, may be seen the embryo plant† out of which the leaf grows. So much for the fruit.

The root is thicker than the thickest reed, and cellular like the stem; and those who live about the marshes eat it as food, either raw, or boiled, or roasted. These plants are produced spontaneously, but they are cultivated in beds. To prepare their bean-beds, the beans are sown in the mud, being previously mixed up carefully with chaff, so that they may remain without injury till they take root, after which the plant is safe.

The root is strong, and not unlike that of the reed; the stem is also similar, except that it is full of prickles, and therefore the crocodiles, who do not see very well, avoid the plant, for fear of running the prickles into their eyes.

This plant is produced in Syria and about Cilicia, but does not come to maturity in that country; but about Torone, in a certain marsh of a moderate size, in the Chalcidic region, it ripens and comes to perfection, and brings forth perfect seed. *Theophrastus*, Book iv. c. 10.

#### DIOSCORIDES.

The Ægyptian Bean, which some call the Ponticon, is chiefly produced in Ægypt and in Asia; and in Cilicia it is found in stagnant waters; it has a large leaf like an umbrella, and a stem a cubit high, of the

- \* An ancient Grecian cubit was somewhat more than a foot and a half of our measure; the exact proportion is 18 inches , 3125 decim.
- + το συνεσίζαμμένον, a contorted, crooked thing, in this place, must allude to the embryo plant; since, in the seed, when broken to pieces, this embryo is to be seen doubled and folded up, somewhat similar to the embryo plant, which may be seen by every one in the seed of the common Sea-kale of our kitchen gardens; Crambe maritima of Linnaeus.

# TAMARA.

thickness of a finger. The flower, which is like a rose, is twice the size of a poppy: when the petals fall off, the capsula is produced with cells, each containing a bean, a little elevated above the top of the capsula, like a bubble in water. The capsula is called *Ciborion* or *Cibotion*, and the planting of the beans is effected by sinking the capsula in the water, with the beans in it, so that they may take root in the mud.

The root is thicker than a reed, and it is eaten both boiled and raw, and is called *Collocasia*; the bean is also eaten green: when it is dry, it becomes of a dark colour, and is larger than the Grecian bean.

Dioscorides, Book ii. c. 128.

## From Arrian.

# PAGE 15.

On the banks of the Hydaspes, after Alexander had prepared many vessels with two and with three banks of oars, and ships for the transport of his horses and his army, he resolved to sail down the river as far as the ocean. Here he first saw crocodiles in the Indus, which he had never before seen in any river but the Nile; and beans growing on the banks of the Acesines, such as are produced in Ægypt. Arrian then proceeds to state, that Alexander having heard that the Acesines discharged itself into the Indus, he thought he had discovered the sources of the Nile. Arrian, Exped. Alex. Book vi. c. 1.

\*\*\* Besides these plants already mentioned, the Ancients had also papilionaceous plants, which they called Lotus, of the same natural order as are known to modern Botanists by that name. Dioscorides describes two sorts, Λωτὸς ἥμερος, and Λωτὸς ἄγριος. Lib. iv. c. 111, 112.

There was no intention of adding a translation of this paper till the Greek and Latin were printed, or the typography would have been differently arranged. The original languages would have been printed at the bottom of each page, and the translations would have been joined to the English text.

# TAMARA.

Among the plants of ancient Ægypt this was in great estimation; and, by Pliny and Athenaeus, was considered to be a Lotus. The capsula resembling a wasps nest, with esculent seeds, about the size of olive berries, contained in separate cells, is so remarkable, that the plant cannot be mistaken when described by Herodotus, Theophrastus, and Dioscorides.

# HERODOTUS,

After speaking of the Ægyptian Lotus, which he considered to be a liliaceous plant, says,

"Εσ]ι δε καὶ ἄλλα κρίνεα ρόδοισι εμφερέα, εν τῷ ποταμῷ γιγνόμενα καὶ ταῦτα εξ ῶν ὁ καρπὸς εν ἄλλη κάλυκι παραφυομένη εκ τῆς ρίζης γίγνεται κηρίω σφηκῶν ιδέην ὁμοιότατον. εν τέτω τρωκτὰ όσον τε πυρὴν ελαίης εγγίνεται συχνά. τρώγεται δε καὶ ἀπαλὰ ταῦτα καὶ αὖα.

Lib. ii. c. 121. D.

## THEOPHRASTUS.

\*Ο δὲ κύαμος φύε αι μὲν ἐν τοῖς ἔλεσι καὶ ταῖς λίμναις καυλὸς δὲ αὐτε μῆκος μὲν ὁ μακρότα ος εἰς τέτ αρας πήχεις πάχος δὲ δακ υλιαῖος ὁμοιος δὲ καλάμω μαλακῷ ἀγονάτω. διαφύσεις δὲ ἔνδοθεν ἔχει διόλε διειλημένας ὁμοίως τοῖς κηρίοις ἐπὶ τέτω δὲ ἡ κωδία παρομοία σφηκίω περιφερεῖ. καὶ ἐν ἑκάς ω τῶν κυθτάρων κύαμος μικρὸν ὑπεραίρων αὐθε. πλῆθος δὲ οἱ πλεῖς οι τριάκον θα. τὸ δὲ ἄνθος διπλάσιον ἡ μήκωνος χρῶμα δὲ ὅμοιον ρόδω καθακορές. ἐπάνω δὲ τε ὕδαθος ἡ κωδία παραφύε αι δὲ φύλλα μεγάλα παρ ἔκας ον τῶν κυάμων. ὧν καὶ θὰ μεγέθη πίλω θετ αλική τὸν αὐθὸν ἔχον α καυλὸν τῷ τῶν κυάμων. συνθρίψαν οι δὲ τε τὸ συνες ραμμένον ἐξ ἕ γῖγνε αι ἡ πῖλος. τὰ

μεν εν περὶ τὸν καρπὸν, τοιαῦτα. ἡ δὲ ρίζα παχυθέρα τε καλάμε τε παχυθάτε, καὶ διαφύσεις ὁμοίως ἔχεσα τῷ καυλῷ. ἐσθίεσι δ΄ ἀυτὴν καὶ ώμὴν, καὶ ἐρθὴν, καὶ ὀπθήν. καὶ οί περὶ τὰ ἔλη, τέτῳ σίτῳ χρῶνθαι. φύεθαι μὲν εν καὶ πολὺς ἀυτόμαθος. ἐ μὴν ἀλλὰ καθαβάλλεσιν ἐν πηλῶ, ἀχυρώσαντες ἔυ μάλα πρὸς τὸ καθενεχθῆναί γε καὶ μεἴναι καὶ μὴ διαφθαρῆναι. καὶ οὐτω καθασκευάζεσι τες κυάμωνας. ἀν δ΄ ἄπαξ ἀντιλάβηθαι, μὲνει, διὰ τέλες. ἰσχυρὰ γὰρ ἡ ρίζα καὶ ἐ πόρξω τῆς τῶν καλάμων, πλὴν ἐπακανθίζεσα. διὸ καὶ ὁ κροκόδειλος φεύγει, μὴ προσκόψη τῷ ὀφθαλμῷ, τῷ μὴ ὀξὸ καθορῷν. γίγνεθαι δὲ ἔτος καὶ ἐν Συρία καὶ κατὰ Κιλικίαν ἀλλ ἐκ ἐκπέτθεσιν αὶ χῶραι. καὶ περὶ Τορώνην τῆς Χαλ-κιδικῆς ἐν λίμνη τινὶ μετρία τῷ μεγέθει, καὶ αὐτὴ πέτθει καὶ τελειοῖ καὶ τελεοκαρπεῖ.

Lib. iv. Δ. c. 10. e'.

# DIOSCORIDES.

Ο δε Αιγύπλιος κύαμος, δυ ενιοι Πουτικου καλέσι, πλειζος μευ γίνεται ευ Αιγύπτω, καὶ ευ Ασία δε, καὶ εν Κιλικία ευ τάις λίμναις ευρίσκεται. Έχει δε φύλλου μέγα ως πέτασου, καυλου δε πηχυαῖου, περὶ δάκτυλου τὸ πάχος ἄνθος δε ξοδόχρουν, διπλάσιου μήκωνος όπερ ἀπανθήσαν φέρει φυσκία παραπλήσια θυλακίσκοις, εν οῖς κύαμος μικρὸς ὑπεραίρων τὸ πῶμα ως πομφόλυξ καλεῖται δε κιδώριου, ἢ κιδώτιου, δὶα τὸ τὴν φυτείαν τε κυάμε γίνεσθαι αὐτοῦ ἐντιθεμένε ἐν ἰκμοδώλω, ἔτω τὲ εἰς τὸ ὕδωρ ἀφιεμένε. ρίζα δὲ ὑπεστι παχυθέρα καλάμε βιδρωσκομένη έφθη τὲ καὶ ωμή, κολλοκασία καλεμένη\*. ὁ δὲ κύαμος διδρώσκεται μὲν καὶ χλωρός. ξηρανθεὶς δὲ γίνεται μέλας, καὶ μείζων τε Ἑλληνικοῦ. Lib. ii. β΄ c. 128. κρθ΄.

To these testimonies might be added those of Strabo, Athenaeus, and Arrian, to shew that this plant anciently abounded on the shores of the Nile, though in modern times it has not been found in Ægypt. Arrian's account is very remarkable; according to that author, when Alexander reached the river Indus, he believed that he had discovered a branch of the Nile, from finding crocodiles in the stream, and the Ægyptian bean growing on its banks.

\* By Dioscorides and Pliny, and other ancient authors, the Ægyptian Κύαμος was often confounded with the Colocasia. No plants can be more unlike than the Ægyptian Κύαμος and the Collocasia (the Arum Collocasia of Linnæus); but their roots possessed a common esculent property of considerable importance to the natives where they grew, which may have rendered botanical distinction of little importance, and may have been the cause of confounding them together.

"Αλέξανδρος δε, επειδή παρεσκευάσθησαν αὐτῷ ἐπὶ τε 'Υδάσπε ταῖς ὅχθαις πολλαὶ μὲν τριακόντοροι καὶ ἡμιόλιαι, πολλα δε καὶ ἱππαγωγὰ πλοῖα, καὶ ἄλλα ὅσα ἐς παρακομιδήν ςρατιᾶς ποταμῷ εὐπορα, ἔγνω καταπλεῖν κατὰ τὸν 'Υδάσπην ὡς ἐπὶ τὴν μεγάλην θάλασσαν. Πρότερον μέν γε ἐν τῷ Ἰνδῷ ποταμῷ κροκοδείλες ἰδών, μόνῳ τῶν ἄλλων ποταμῶν πλὴν Νείλε, πρὸς δὲ ταῖς ὅχθαις τε 'Ακεσίνε κυάμες πεφυκότας, ὁποίες ἡ γῆ ἐκφέρει ἡ Αἰγυπτία: \_\_\_\_\_ Αrrian, Exped. Alex. Lib. vi. c. 1. ά.

When Prosper Alpinus visited Egypt, in the beginning of the seventeenth century, he was not able to discover this plant; nor since his time has it been found by other travellers: but we are acquainted with it from India, where it makes a conspicuous figure in the Mythology of the eastern nations. Thunberg says it is a sacred plant in Japan, and pleasing to their deities; and that the images of their idols are often represented sitting on its large leaves.

In China, their favourite deity, Shing-moo, which corresponds to the Isis of the Ægyptians, is generally represented with a flower of it in her hand, and, if seated, she is usually placed on one of its peltate leaves; and few temples are without some representation of this plant.

Loureiro says that it abounds in muddy marshes, and is cultivated in large handsome pots in the gardens and houses of the Mandarines in China; and that there is a variety with a flower of pure white, and another with a very beautiful and luxuriant blossom, having about a hundred large petals, white or rose-coloured. It is called *Lien-wha* in the Chinese language.

In the remains of ancient Ægyptian temples, this plant frequently occurs in sculptured ornaments and symbolical pictures. The figure of Isis, represented in the annexed Plate, seated on a capsula of the Ægyptian Cyamus, with a flagellum in her hand, is from an antique gem, once in the possession of M. de la Chausse, and copied from the third volume De l'Académie Royale des Inscriptions. This mode of representing Isis is not uncommon: Montfaucon supplies many similar examples. He also gives the representation of two Ægyptian Altars, ornamented in a peculiar manner with birds and fishes, and capsulae of the Ægyptian Cyamus, with pendent stems and leaves.

This plant having been anciently common to the Nile and to the

marshes of Ægypt, and now not discoverable in that country, it has been supposed that it must originally have been imported from the East. The truth of this opinion, if it were established, would serve to shew that there was a communication between those distant nations anterior to historical record: and as this plant is used as a religious symbol, and in religious ceremonies, wherever it has been found indigenous in India; this fact may afford one conjectural point, among many, that the religion, as well as the arts, of Egypt, are indebted to nations of still more remote antiquity.

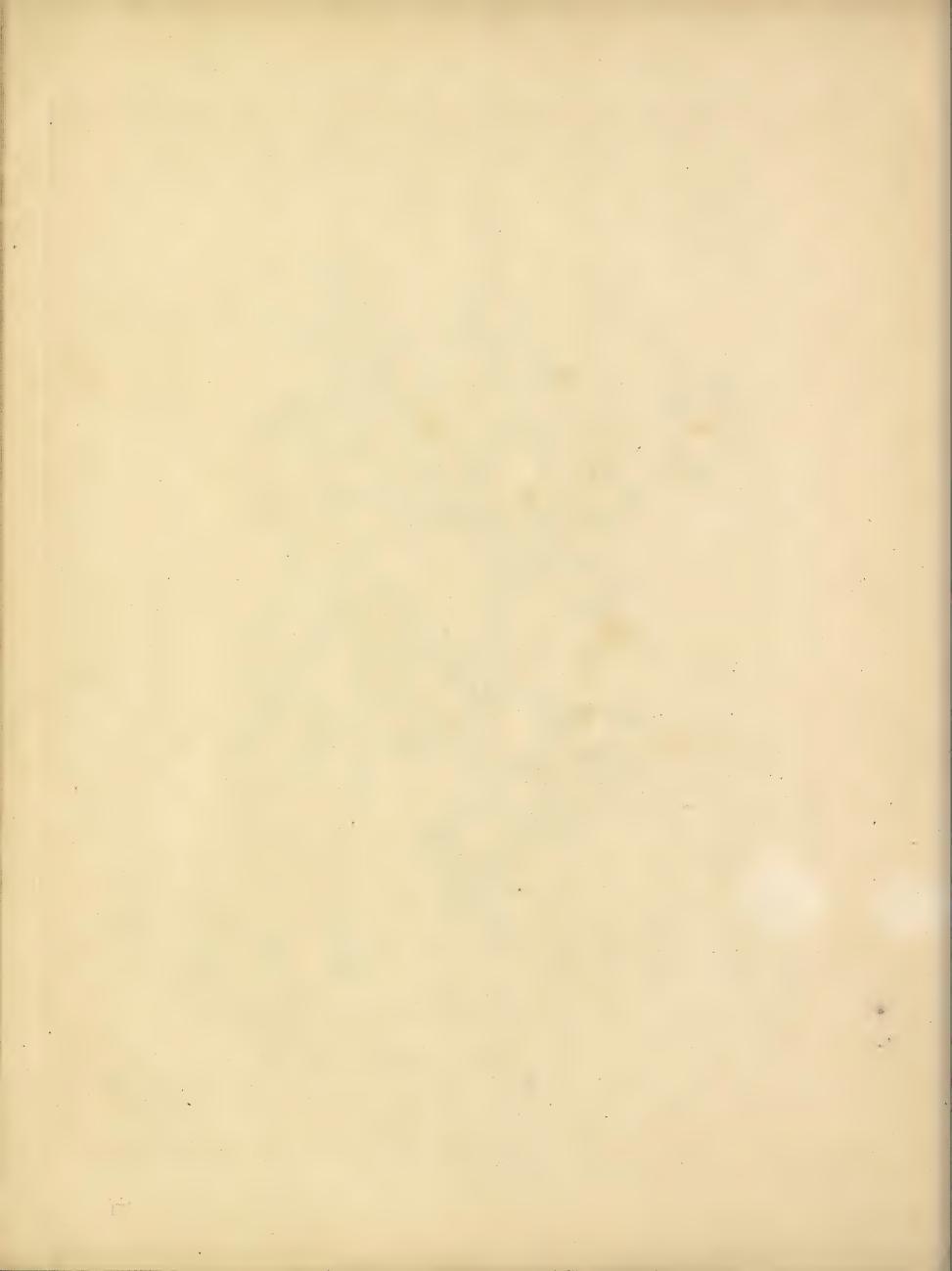
In the Hortus Malabaricus, the celebrated Rhede has named this plant *Tamara*; and as he is one of the earliest writers who published any figure from an actual knowledge of the plant itself, the name he adopted has been engraved under the annexed figure.

T. Bensley, Printer, Bolt Court, Fleet Street, London.



Rhamnus Lotus, LINN.

LIBYAN LOTUS.





ÆGYPTIAN LOTUS.





LOTUS MAJOR. DR SMITH.

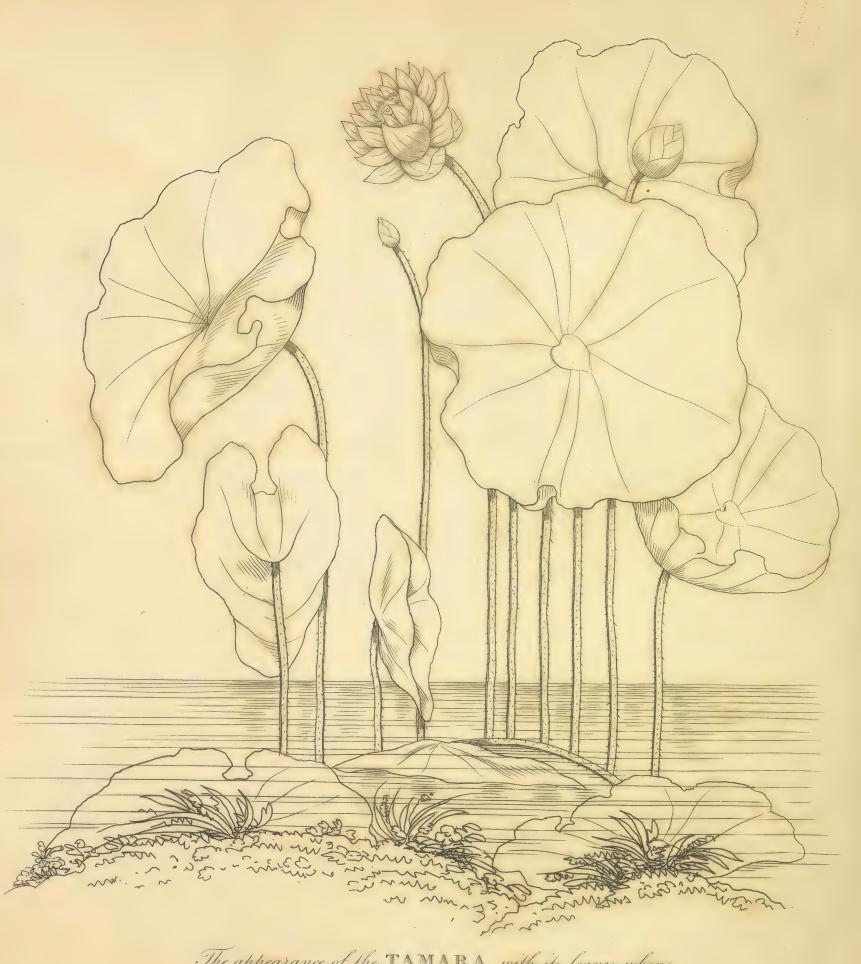
Λωτὸς ἤμερος

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The appearance of the TAMARA with its leaves when growing in the water.





